

=> d his

(FILE 'HOME' ENTERED AT 14:41:09 ON 14 FEB 2005)

FILE 'EPFULL, FRFULL, PATDPAFULL, PCTFULL, RDISCLOSURE, USPATFULL,
USPAT2' ENTERED AT 14:41:20 ON 14 FEB 2005

E ZASHOFF/IN

E ZASLOFF/IN

L1 124 S E3-E12

L2 78 S L1 AND (CHOLESTEROL? OR LIPID? OR HYPERLIPID? OR HYPOLIPID OR

L3 65 S L1 AND (CHOLESTEROL? OR LIPID? OR HYPERLIPID? OR HYPOLIPID OR

FILE 'USPATFULL, USPAT2' ENTERED AT 14:44:42 ON 14 FEB 2005

L4 29 S L3

FILE 'CAPLUS' ENTERED AT 14:47:11 ON 14 FEB 2005

L5 1 S WO2002006299/PN

SELECT L5 1 RN

L6 110780 S E1-E12

FILE 'REGISTRY' ENTERED AT 14:48:12 ON 14 FEB 2005

L7 1 S 186139-09-3/RN

SET NOTICE 1 DISPLAY

SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 14:49:32 ON 14 FEB 2005

L8 1 S 390808-65-8/RN

SET NOTICE 1 DISPLAY

SET NOTICE LOGIN DISPLAY

FILE 'CAPLUS' ENTERED AT 14:50:43 ON 14 FEB 2005

L9 11 S L7 OR L8

L10 5 S L9 AND (CHOLESTEROL? OR LIPID? OR HYPERLIPID? OR HYPOLIPID O

L11 1 S L4 AND L9

FILE 'USPATFULL, USPAT2' ENTERED AT 14:55:09 ON 14 FEB 2005

L12 6 S L9

L13 0 S LL4 AND L12

L14 6 S L12 AND (CHOLESTEROL? OR LIPID? OR HYPERLIPID? OR HYPOLIPID O

L15 6 S L12 AND (CHOLESTEROL? OR LIPID? OR HYPERLIPID? OR HYPOLIPID O

L16 3 S US 5856535/PN OR US5637691/PN OR 5733899/PN OR US5721226/PN

L17 3 S L16 AND (CHOLESTEROL? OR LIPID? OR HYPERLIPID? OR HYPOLIPID O

L18 1 S US6143738/PN

L19 1 S L18 AND (CHOLESTEROL? OR LIPID? OR HYPERLIPID? OR HYPOLIPID O

FILE 'EPFULL, FRFULL, PATDPAFULL, PCTFULL, RDISCLOSURE, USPATFULL,
USPAT2' ENTERED AT 15:23:12 ON 14 FEB 2005

FILE 'USPATFULL, USPAT2' ENTERED AT 15:23:23 ON 14 FEB 2005

L20 1 S US5792635/PN AND (CHOLESTEROL? OR LIPID? OR HYPERLIPID? OR HY

```
=> s wo2002006299/pn
L5          1 WO2002006299/PN
              (WO2002006299/PN)

=> select 15
ENTER ANSWER NUMBER OR RANGE (1-) :1
ENTER DISPLAY CODE (TI) OR ?:rn
E1 THROUGH E12 ASSIGNED

=> s e1-e12
    127 148717-90-2/BI
    10 186139-09-3/BI
    1 390808-63-6/BI
    1 390808-64-7/BI
    2 390808-65-8/BI
    1 390808-66-9/BI
    1 390808-67-0/BI
    1 390808-68-1/BI
    1 390808-69-2/BI
    1 390808-70-5/BI
107284 57-88-5/BI
  3394 9034-39-3/BI
L6 110780 (148717-90-2/BI OR 186139-09-3/BI OR 390808-63-6/BI OR 390808-64
      -7/BI OR 390808-65-8/BI OR 390808-66-9/BI OR 390808-67-0/BI OR
      390808-68-1/BI OR 390808-69-2/BI OR 390808-70-5/BI OR 57-88-5/BI
      OR 9034-39-3/BI)
```

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 186139-09-3 REGISTRY
CN Cholestane-7,24-diol, 3-[3-[[4-[(3-aminopropyl)amino]butyl]amino]propyl]a
mino]-, 24-(hydrogen sulfate), (3 β ,5 α ,7 α ,24R)- (9CI) (CA
INDEX NAME)

OTHER NAMES:

CN Aminosterol 1436

CN MSI 1436

CN Trodusquemine

FS STEREOSEARCH

MF C37 H72 N4 O5 S

CI COM

SR CA

LC STN Files: BIOSIS, CA, CAPLUS, IMSRESEARCH, TOXCENTER, USPAT2, USPATFULL

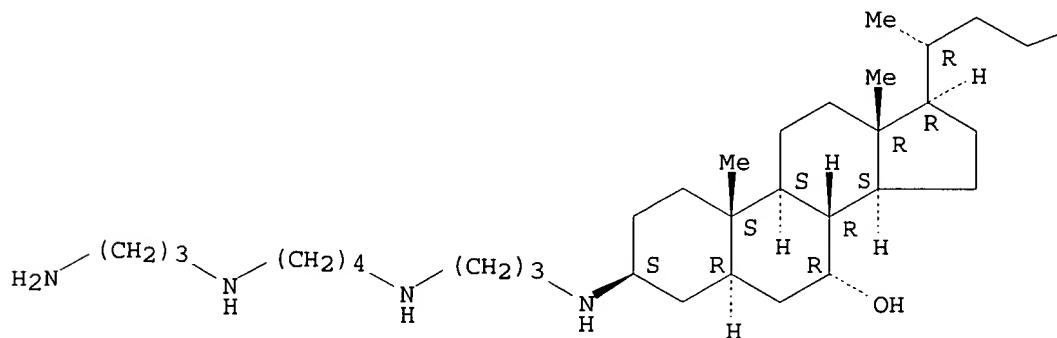
DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

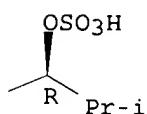
RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PRP (Properties); USES (Uses)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10 REFERENCES IN FILE CA (1907 TO DATE)

10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 390808-65-8 REGISTRY
CN Cholestane-7,24-diol, 3-[3-[[4-[(3-aminopropyl)amino]butyl]amino]propyl]amino]-, 24-(hydrogen sulfate), (3 α ,5 α ,7 β ,24R)- (9CI) (CA
INDEX NAME)

OTHER NAMES:

CN MSI 1673
FS STEREOSEARCH
MF C37 H72 N4 O5 S
CI COM
SR CA

LC STN Files: CA, CAPLUS, CASREACT

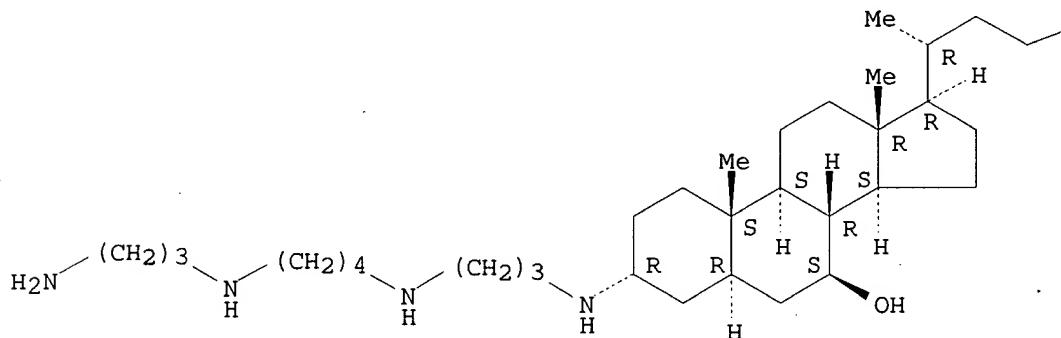
DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

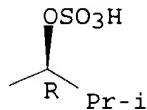
RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

'=> d ibib 1-5

L10 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:709281 CAPLUS
DOCUMENT NUMBER: 142:127478
TITLE: A novel aminosterol reverses **diabetes** and fatty liver disease in **obese** mice
AUTHOR(S): Takahashi, Nobuhiko; Qi, Yong; Patel, Hiral R.; Ahima, Rexford S.
CORPORATE SOURCE: Department of Medicine, Division of Endocrinology, Diabetes and Metabolism, University of Pennsylvania, Philadelphia, PA, 19104, USA
SOURCE: Journal of Hepatology (2004), 41(3), 391-398
CODEN: JOHEEC; ISSN: 0168-8278
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:521657 CAPLUS
DOCUMENT NUMBER: 138:83251
TITLE: Appetite suppression and **weight** reduction by a centrally active aminosterol
AUTHOR(S): Ahima, Rexford S.; Patel, Hiralben R.; Takahashi, Nobuhiko; Qi, Yong; Hileman, Stanley M.; Zasloff, Michael A.
CORPORATE SOURCE: Division of Endocrinology, Diabetes and Metabolism, University of Pennsylvania School of Medicine, Philadelphia, PA, 19104, USA
SOURCE: Diabetes (2002), 51(7), 2099-2104
CODEN: DIAEAEZ; ISSN: 0012-1797
PUBLISHER: American Diabetes Association
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:72114 CAPLUS
DOCUMENT NUMBER: 136:112700
TITLE: Therapeutic uses for aminosterol compounds
INVENTOR(S): Zasloff, Michael; Williams, Jon; Kinney, William; Anderson, Mark; McLane, Mike
PATENT ASSIGNEE(S): Genaera Corporation, USA
SOURCE: PCT Int. Appl., 39 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002006299	A2	20020124	WO 2001-US22078	20010713
WO 2002006299	A3	20020606		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 2001071999	A5	20020130	AU 2001-71999	20010713
PRIORITY APPLN. INFO. :			US 2000-885247	A 20000713

OTHER SOURCE(S) : MARPAT 136:112700

L10 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2001:394818 CAPLUS
 DOCUMENT NUMBER: 136:145000
 TITLE: A spermine-coupled cholesterol metabolite
 from the shark with potent appetite suppressant and
 antidiabetic properties
 AUTHOR(S): Zasloff, M.; Williams, J. I.; Chen, Q.; Anderson, M.;
 Maeder, T.; Holroyd, K.; Jones, S.; Kinney, W.;
 Cheshire, K.; McLane, M.
 CORPORATE SOURCE: Magainin Pharmaceuticals, Plymouth Meeting, PA, 19462,
 USA
 SOURCE: International Journal of Obesity (2001), 25(5),
 689-697
 CODEN: IJOBDP; ISSN: 0307-0565
 PUBLISHER: Nature Publishing Group
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:772650 CAPLUS
 DOCUMENT NUMBER: 128:43837
 TITLE: Therapeutic uses for an aminosterol compound
 INVENTOR(S): Zasloff, Michael; Williams, Jon; Kinney, William;
 Anderson, Mark
 PATENT ASSIGNEE(S): Magainin Pharmaceuticals Inc., USA
 SOURCE: PCT Int. Appl., 63 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 5
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9744044	A1	19971127	WO 1997-US8395	19970516
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2255856	AA	19971127	CA 1997-2255856	19970516
AU 9731306	A1	19971209	AU 1997-31306	19970516
AU 726909	B2	20001123		
EP 923377	A1	19990623	EP 1997-926574	19970516
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 6143738	A	20001107	US 1997-857288	19970516
JP 2002515035	T2	20020521	JP 1997-542602	19970516
WO 9819682	A1	19980514	WO 1997-US19595	19971031
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9851949	A1	19980529	AU 1998-51949	19971031
PRIORITY APPLN. INFO.:			US 1996-17627P	P 19960517
			US 1996-29541P	P 19961101

US 1995-487443
WO 1997-US8395
WO 1997-US19595

A2 19950607
W 19970516
W 19971031

=> d ibib 1-6

- have instant compounds
- related treatment

L15 ANSWER 1 OF 6 USPATFULL on STN
ACCESSION NUMBER: 2004:152502 USPATFULL
TITLE: Stereoselective synthesis of 24-hydroxylated compounds useful for the preparation of aminosterols, vitamin D analogs, and other compounds
INVENTOR(S): Kinney, William A., Richboro, PA, UNITED STATES
Jones, Steven, West Chester, PA, UNITED STATES
Zhang, Xuehai, E. Norriton, PA, UNITED STATES
Rao, Meena N., Lansdale, PA, UNITED STATES
Bulliard, Michel, Angers, FRANCE
Meckler, Harold, Delmar, NY, UNITED STATES
Lee, Nancy, Foxboro, MA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004116724	A1	20040617
APPLICATION INFO.:	US 2003-609124	A1	20030630 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2001-833055, filed on 12 Apr 2001, GRANTED, Pat. No. US 6610866 Division of Ser. No. US 1997-985576, filed on 5 Dec 1997, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-32378P	19961206 (60)
DOCUMENT TYPE:	Utility	X
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MORGAN LEWIS & BOCKIUS LLP, 1111 PENNSYLVANIA AVENUE NW, WASHINGTON, DC, 20004	
NUMBER OF CLAIMS:	53	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	19 Drawing Page(s)	
LINE COUNT:	2267	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L15 ANSWER 2 OF 6 USPATFULL on STN
ACCESSION NUMBER: 2002:133975 USPATFULL
TITLE: Stereoselective synthesis of 24-hydroxylated compounds useful for the preparation of aminosterols, vitamin D analogs, and other compounds
INVENTOR(S): Kinney, William A., Richboro, PA, UNITED STATES
Jones, Steven, West Chester, PA, UNITED STATES
Zhang, Xuehai, E. Norriton, PA, UNITED STATES
Rao, Meena N., Lansdale, PA, UNITED STATES
Bulliard, Michel, Angers, FRANCE
Meckler, Harold, Delmar, NY, UNITED STATES
Lee, Nancy, Foxboro, MA, UNITED STATES
X
PATENT ASSIGNEE(S): Magainin Pharmaceuticals, Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002068834	A1	20020606
APPLICATION INFO.:	US 6610866	B2	20030826
RELATED APPLN. INFO.:	US 2001-833055	A1	20010412 (9)
	Division of Ser. No. US 1997-985576, filed on 5 Dec 1997, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-32378P	19961206 (60)
DOCUMENT TYPE:	Utility	X
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MORGAN, LEWIS & BOCKIUS, 1800 M STREET NW, WASHINGTON, DC, 20036-5869	
NUMBER OF CLAIMS:	52	
EXEMPLARY CLAIM:	1	

NUMBER OF DRAWINGS: 19 Drawing Page(s)

LINE COUNT: 2270

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 3 OF 6 USPATFULL on STN

ACCESSION NUMBER: 2001:112547 USPATFULL

TITLE: Stereoselective synthesis of 24-hydroxylated compounds useful for the preparation of aminosterols, vitamin D analogs, and other compounds

INVENTOR(S): Kinney, William A., Richboro, PA, United States
Jones, Steven, West Chester, PA, United States
Zhang, Xuehai, E. Norriton, PA, United States
Rao, Meena N., Lansdale, PA, United States
Bulliard, Michel, Angers, France
Meckler, Harold, Delmar, NY, United States
Lee, Nancy, Foxboro, MA, United States
PATENT ASSIGNEE(S): Magainin Pharmaceuticals Inc., Plymouth Meeting, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6262283	B1	20010717
APPLICATION INFO.:	US 1997-985876		19971205 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-32378P	19961206 (60)
	US 1997-17627P	19970516 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Clardy, S. Mark	
ASSISTANT EXAMINER:	Pryor, Alton	
LEGAL REPRESENTATIVE:	Morgan, Lewis & Bockius LLP	
NUMBER OF CLAIMS:	11	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 19 Drawing Page(s)	
LINE COUNT:	2206	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L15 ANSWER 4 OF 6 USPATFULL on STN

ACCESSION NUMBER: 1998:147455 USPATFULL

TITLE: Aminosterol compounds and a method of treating infection using the aminosterol compounds

INVENTOR(S): Zasloff, Michael, Merion Station, PA, United States
Shinnar, Ann, Teaneck, NJ, United States
Kinney, William, Churchville, PA, United States
Rao, Meena, Horsham, PA, United States
PATENT ASSIGNEE(S): Magainin Pharmaceuticals Inc., Plymouth Meeting, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5840740		19981124
APPLICATION INFO.:	US 1995-483059		19950607 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Dees, Jose G.		
ASSISTANT EXAMINER:	Badio, Barbara		
LEGAL REPRESENTATIVE:	Finnegan, Henderson, Farabow, Garrett & Dunner		
NUMBER OF CLAIMS:	16		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	27 Drawing Figure(s); 20 Drawing Page(s)		
LINE COUNT:	3513		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L15 ANSWER 5 OF 6 USPATFULL on STN

ACCESSION NUMBER: 1998:95412 USPATFULL

TITLE: Method of inhibiting the sodium/proton exchanger NHE3

and method of inhibiting growth by administering
squalamine
INVENTOR(S) : Zasloff, Michael, Merion Station, PA, United States
PATENT ASSIGNEE(S) : Magainin Pharmaceuticals, Inc., Plymouth Meeting, PA,
United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5792635		19980811
APPLICATION INFO.:	US 1995-474799		19950607 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Gitomer, Ralph		
LEGAL REPRESENTATIVE:	Finnegan, Henderson, Farabow, Garrett & Dunner		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	27 Drawing Figure(s); 20 Drawing Page(s)		
LINE COUNT:	3485		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L15 ANSWER 6 OF 6 USPAT2 on STN

ACCESSION NUMBER: 2002:133975 USPAT2
TITLE: Stereoselective synthesis of 24-hydroxylated compounds useful for the preparation of aminosterols, vitamin D analogs, and other compounds
INVENTOR(S) : Kinney, William A., Richboro, PA, United States
Jones, Steven, West Chester, PA, United States
Zhang, Xuehai, E. Norriton, PA, United States
Rao, Meena N., Lansdale, PA, United States
Bulliard, Michel, Angers, FRANCE
Meckler, Harold, Delmar, NY, United States
Lee, Nancy, Foxboro, MA, United States
PATENT ASSIGNEE(S) : Magainin Pharmaceuticals, Inc., Plymouth, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6610866	B2	20030826
APPLICATION INFO.:	US 2001-833055		20010412 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1997-985576, filed on 5 Dec 1997		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-32378P	19961206 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Pryor, Alton N.	
LEGAL REPRESENTATIVE:	Morgan, Lewis & Bockius	
NUMBER OF CLAIMS:	22	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 19 Drawing Page(s)	
LINE COUNT:	2113	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		